

PQAS

Petroleum Quality Analysis System



Petroleum Quality Analysis System

The PQAS is a highly mobile testing unit with communications capabilities equipped for independent operations throughout the theater. It will provide the commander with added flexibility to receive, store, and issue fuel from a variety of sources. When fuel is determined to be in a condition that prohibits or restricts its use, the PQAS will suggest corrective measures to bring the fuel within useful limits. The petroleum test equipment will be self-diagnostic, self-calibrating, and both user and equipment fault tolerant. The PQAS will be capable of being deployed within and forward of the Forward Support Battalion (FSB) conducting operations in various climatic conditions and will be transportable on all aviation and ground assets designed to carry cargo.

System Includes

Basic Unit:

- On board waste storage container
- Auxiliary Power Unit (APU)
- Analytical Instrumentation Subsystem
- Tent structure 10 ft x 14 ft
- Environmental Control Unit (ECU)
- Communication Equipment



Operational Concept

- Contains computer integrated test and data acquisition instruments for fuel analysis
- Housed in environmentally controlled lightweight expandable shelter mounted on HMMWV
- Provides capability for quality surveillance tests on diesel and aviation turbine fuels by one 77L Soldier

Contact Information

PM PAWS

www.tacom.army.mil/dsa/pmtaws/pm_paws
COM: (586) 574-4200 DSN: 786-4200
FAX: (586) 574-3988

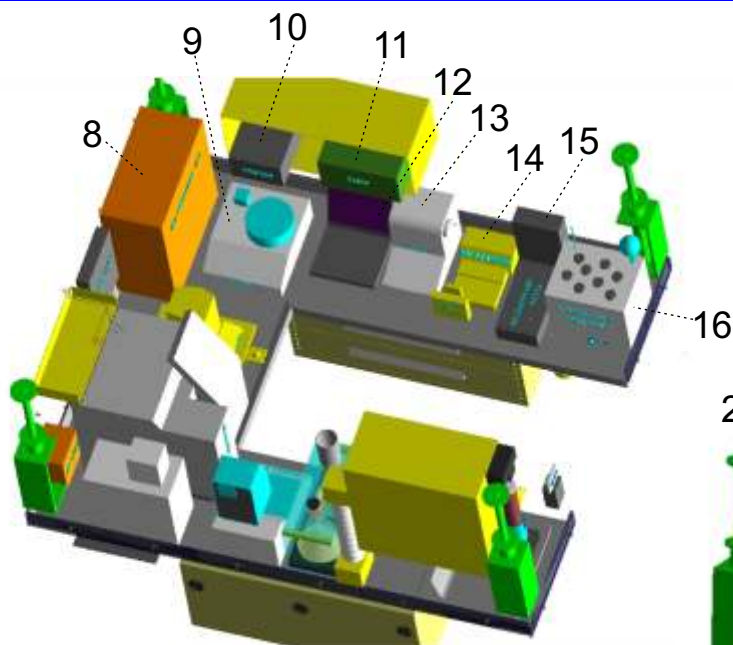
PAWS Help Line

pawshelp@tacom.army.mil
COM: (586) 574-4143 DSN: 786-4143

QUARTERMASTER

www.quartermaster.army.mil





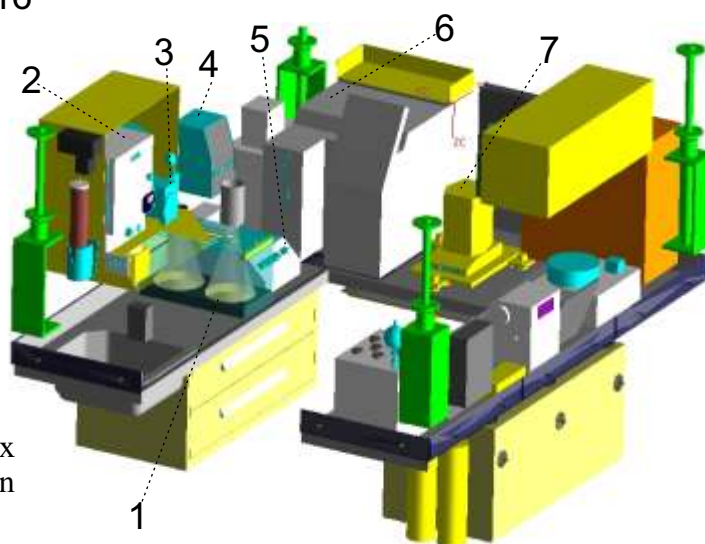
- | | |
|-------------------------|----------------------------|
| 8. ECU Evaporator Unit | 13. Density Unit |
| 9. Sulfur & Lead Tester | 14. Color/Saybolt Tester |
| 10. Printer | 15. Water Separation Index |
| 11. Sincgar | 16. Copper Strip Corrosion |
| 12. Computer | |

PROGRAM STATUS: N/A

LIN	NSN	SSN	BOIP
Z48700	N/A	R67500	Q057AA

Transportability

- HMMWV
- Air, fixed-and rotary-wing aircraft



- | | |
|------------------------------|-----------------|
| 1. Particulate Contamination | 5. Freeze Point |
| 2. Oven | 6. Distillation |
| 3. Vacuum Pump | 7. Balance |
| 4. Flash Point | |

Environmental Conditions

Storage	-31°F to 140°F
Operation	-25°F to 120°F

Performance

Setup.....	Operational within 30 minutes
Reliability.....	200 hr MTBHEFF and 400 hr MTBHSA
Maintainability.....	MR not exceed 0.07 maintenance man hr/operating hr
NBC survivability.....	HAEMP Decontaminable MOPP 4 compatible

Dimensions

- | | |
|---|-----------------------------|
| • System Length x Width x Height
(Expanded height) | 8.45 L x 7.4 W x 5.63 H (7) |
| • System Weight | 3,150 lb |
| • Total System Weight
(HMMWV, personnel and equipment) | 9,316 lb |

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